Connecting Speakers

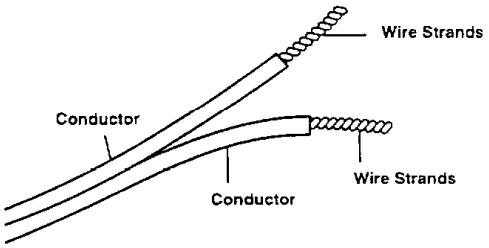
Follow these guidelines when you select and connect speakers.

- *Be sure you properly connect all speakers.*
- *Do not connect two pairs of speakers to a single set of terminals (A or B) at the same time. When you use two pairs of speakers, connect one set to* **Speakers A** *and one set to* **Speakers B**.
- *Realistic, Optimus, and other high-quality speakers have color-coded speaker terminals (red for positive polarity and black for negative polarity). Use these color-coded terminals as a guide to help you properly connect the speakers to the receiver.*
- *Use 16-gauge (or larger) speaker wire for all speaker connections, and consider possible speaker locations before you decide how much speaker wire you need.*

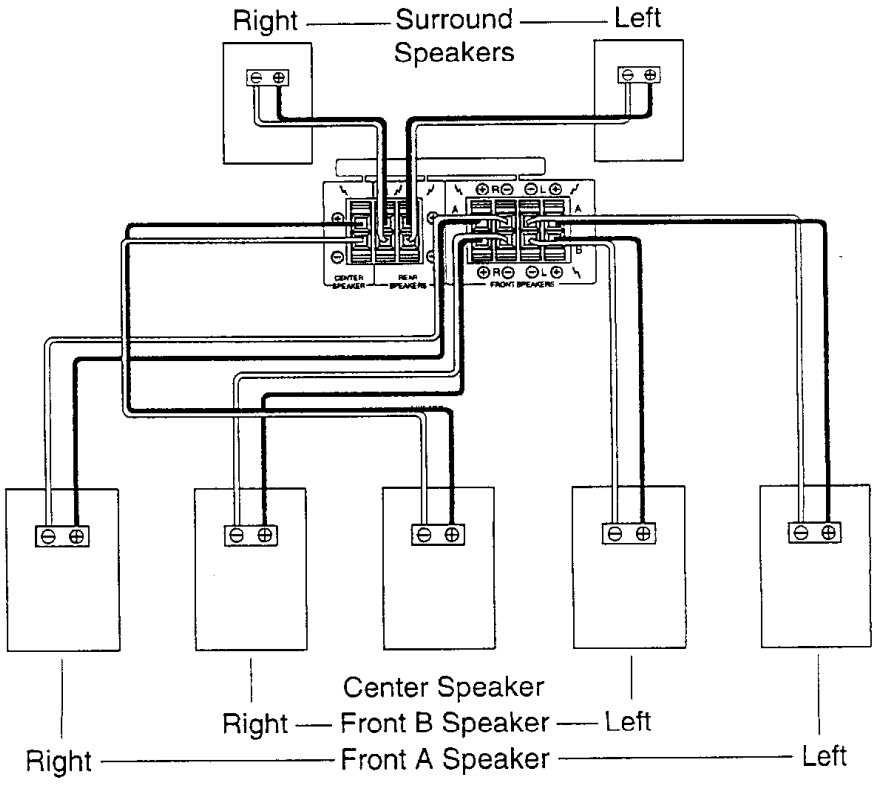
Preparing the Speaker Wires

Speaker wire consists of two conductors (individual wires) encased in insulation and is usually color-coded or marked with a ridge along one side so you can identify each conductor. Use these markings as a guide to help you properly connect the speakers to your receiver.

Follow these steps to prepare the speaker wires.

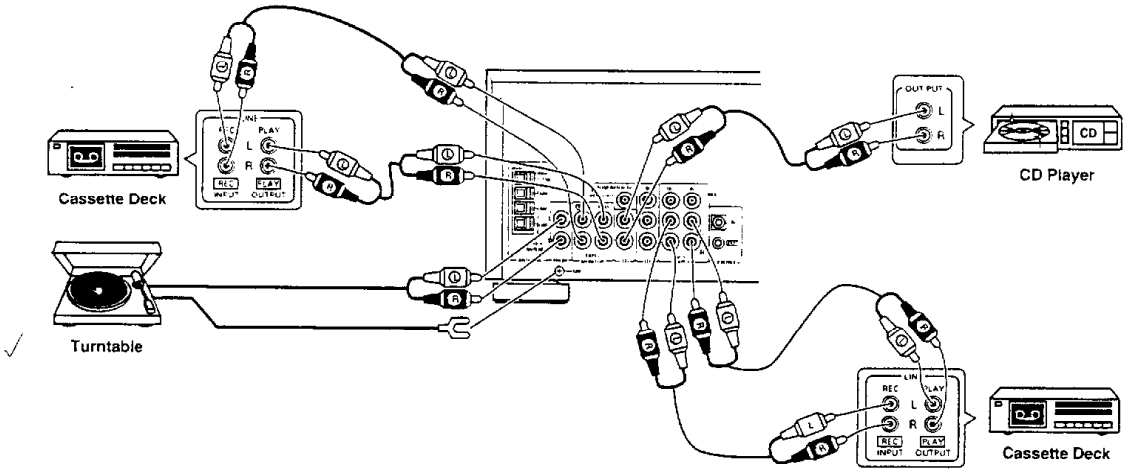


1. Cut the speaker wires to the necessary length.
2. Separate the wires about 4 inches on each end.
3. Using a wire stripper, carefully strip about 3/4 inch of insulation from the end of each conductor.
4. Twist the end of each conductor to secure any loose wire strands.



Connecting Program Sources

You can connect up to five external program sources to your receiver.



Use shielded audio cables with phono connectors for all audio connections.

Connecting a Turntable

Connect a turntable with a magnetic cartridge only. Some older turntables use a ceramic-type cartridge that does not work with this system.

Connect the turntable's left and right cables to the receiver's left and right **PHONO** jacks. Then connect the turntable's ground wire to the receiver's **GND** terminal.

Note: *If you place the cassette deck directly above, below, or to the left of the receiver, the receiver could interfere with the cassette deck's operation. If possible, position the cassette deck to the right of the receiver or locate it away from the receiver.*

Connecting Cassette Deck(s)

You can connect cassette decks to the **VCR/TAPE 1** and the **TAPE 2 MONITOR** jacks. Connect the cassette deck's output jacks to the **VCR/TAPE 1 IN** (audio) or **TAPE 2 PLAY** jacks, and connect the input jacks of your cassette deck to **VCR/TAPE 1 OUT** (audio) or **TAPE 2 REC** jacks.

You can connect a third cassette deck (for playback only) to the **LD IN** (audio) jacks.

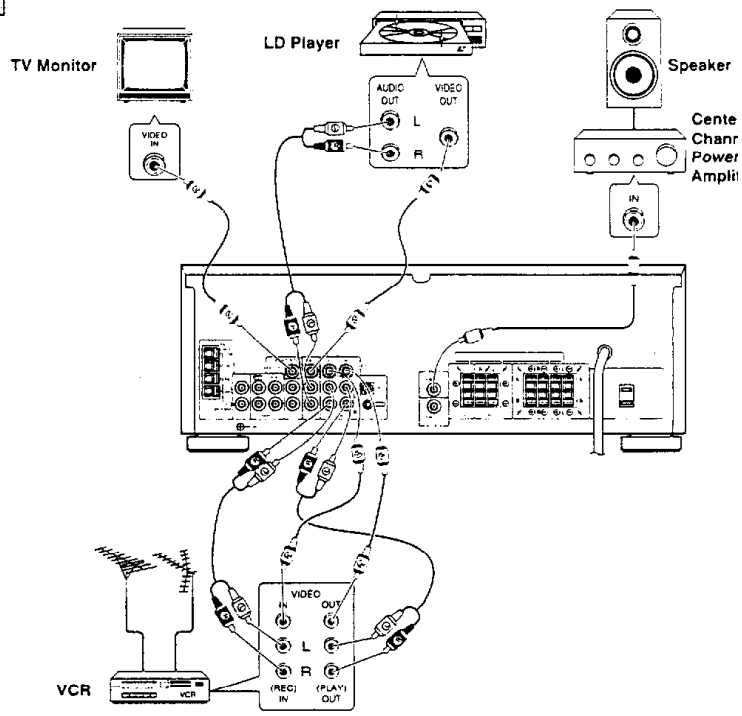
Connecting a CD Player

To connect a CD player to the receiver, connect the CD player's left and right output jacks to the receiver's **L** and **R CD** input jacks.

Connecting Video Sources

Note: If your VCR is monaural, use a Y-adapter (available at your local Radio Shack store) to connect the VCR's audio output to both the L and R audio inputs on the receiver.

If you connect two video sources such as VCRs or laser disc players t your receiver, you can use the receiver to switch between viewing the sources. You can also use the receiver to easily record from the video sources to the source connected to VCR/TAPE 1.



Connect phono cables from a VCR's audio outputs to the receiver's VC TAPE 1 or LD IN (audio) jacks. Then connect phono cables from the receiver's VCR/TAPE 1 OUT (audio) jacks to the VCR's audio input jacks.

Connect video cables from each video source's video outputs to the receiver's VCR/TAPE 1 or LD VIDEO IN jacks. Then connect video cables from the receiver's VCR/TAPE 1 VIDEO OUT jack to the VCR's video input.

Connecting a Video Monitor

The monitor (or TV with baseband video input) you connect to the VID OUT terminal can monitor any program you connect to the receiver's V TAPE 1 or LD input jacks. Then connect a video cable from the receiver's VIDEO OUT TO MONITOR TV jack to the monitor's video input.

Connecting an Additional Amplifier

To increase the center channel's output power, you can connect a pow amplifier to the CENTER jack, as shown. Then connect the center chanr speaker to the amplifier.